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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/052, 744 03/31/98 HAMDI

R CCC1P020/P15

LM01/0308

 EXAMINER

GARY R. STANFORD
AKIN GUMP STRAUSS HAUER & FELD, LLLP
816 CONGRESS AVENUE
SUITE 1900
AUSTIN TX 78701

ELAMIN-A

 ART UNIT PAPER NUMBER

2782

DATE MAILED:

03/08/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. 09/052,744	Applicant(s) HAMDI et al
Examiner Abdelmoniem Elamin	Group Art Unit 2782



Responsive to communication(s) filed on Dec 27, 1999

This action is **FINAL**.

Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle* 935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claim

Claim(s) 1-24 is/are pending in the application.
Of the above, claim(s) _____ is/are withdrawn from consideration.

Claim(s) _____ is/are allowed.

Claim(s) 1-11, 14, 17, 18, 23, and 24 is/are rejected.

Claim(s) 12, 13, 15, 16, and 19-22 is/are objected to.

Claims _____ are subject to restriction or election requirement.

Application Papers

See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

The drawing(s) filed on _____ is/are objected to by the Examiner.

The proposed drawing correction, filed on _____ is approved disapproved.

The specification is objected to by the Examiner.

The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

All Some* None of the CERTIFIED copies of the priority documents have been

received.

received in Application No. (Series Code/Serial Number) _____.

received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

Notice of References Cited, PTO-892

Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

Interview Summary, PTO-413

Notice of Draftsperson's Patent Drawing Review, PTO-948

Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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DETAILED ACTION

1. This response to amendment filed on 12/27/1999 (paper #10).
2. Claims 1-24 remain for examination.
3. Applicant's arguments with respect to claims 1-11, 14, 17, 18, 23 & 24 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 U.S.C. § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.
5. Claims 1-11, 14, 17, 18, 23 & 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burnett et al, US. Pat. No. 5,870,080.
6. As to claim 1, 2 & 23, Burnett discloses a computer system comprising;
a computer including at least a USB port [Port 111 of Fig. 4];
a first transceiver coupled to the USB port of said computer [Transceiver 131 of Fig. 4]; and
a second transceiver coupled to a peripheral device [col. 4, lines 39-41];

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said first and second transceivers cooperate to form a wireless USB bus link between said computer and said peripheral device [Abstract]. **Burnett** does not explicitly teach said second transceiver coupled to said USB port of said peripheral device.

However, this limitation is well known in the art¹.

7. As to claim 3, it is a matter of design choice to have said first transceiver internal to the housing of said computer.

8. As to claim 4, **Burnett** teaches said computer has a housing and wherein said first transceiver is provided external to the housing of said computer, and said transceiver couples to the USB port of said computer [Figs 1 & 4].

9. As to claim 5 & 10, **Burnett** teaches said peripheral device is a printer [Fig. 1]

10. As to claims 6 & 7, it is a matter of design choice to have said second transceiver provided internal or external to the peripheral housing.

11. As to claims 8 & 9, it is well known in the art to have said peripheral device being a peripheral hub having a plurality of USB ports, and having said peripheral hub further includes an

¹See Garney et al, US. Pat. No. 5,890,015.

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upstream USB port, and having said transceiver being connected to the upstream USB port of said peripheral hub².

12. As to claims 11, 14, 17 & 18, Burnett teaches said computer supplies a wired internal USB bus to the USB port of said computer [Fig. 4], and wherein first transceiver comprises:

- a first transceiver circuit [Transceiver 131 of Fig. 4];
- a first bus interface that interfaces said transceiver circuitry to the internal USB bus [Fig. 4],
- an antenna operatively coupled to said transceiver [col. 3, lines 4-10].

13. As to claim 24, managing power utilization of transceivers is well known in the art.

Allowable Subject Matter

14. Claims 12, 13, 15, 16, 19-22 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

14.1 the prior art does not teach the following limitations;

 said first transceiver circuitry has a normal power mode ... the internal USB bus.

 said first transceiver circuitry comprises;

 a first modulator ...;

²See Garney et al, US. Pat. No. 5,890,015.

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a first up-convertor ...;

a first down-convertor ...;

a first demodulator ...;

said second transceiver circuitry has a normal power mode ... the wireless USB bus.

said second transceiver circuitry comprises;

a second modulator ...;

a second up-convertor ...;

a second down-convertor ...;

a second demodulator ...;

said transceiver comprises;

a modulator ...;

an up-convertor ...;

a down-convertor ...;

a demodulator ...;

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abdelmoniem I. Elamin whose telephone number is (703) 305-3804, or via e-mail, abdelmoni.emelamin@uspto.gov. The examiner can normally be reached Monday through Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas C. Lee, can be reached at (703)305-9717. The fax number for this Group is (703)305-3718.

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Any inquiry of a general nature relating to the status of this application should be directed to the Group receptionist whose telephone number is (703)305-9600.

Any response to this action should be mailed to:

Commissioner of Patents and trademarks

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Or faxed to:

(703)308-9051 (for formal communications intended for entry)

Or:

(703)305-3718 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (receptionist).

Abdelmoniem I. Elamin

March 5, 2000



THOMAS C. LEE
SUPERVISORY PATENT EXAMINER
GROUP 2700